Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. - 21. (cancelled)

- 22. (new) A process for the production of a synthetic resin composite material with a polyurethane gel coat, wherein the process comprises
- (i) mixing a polyol component (A) and a polyisocyanate component (B) and at least partially curing the resultant mixture to form a gel coat material; and
- (ii) contacting the gel coat material with a synthetic resin that comprises at least one of an epoxy resin and a vinyl ester resin, the synthetic resin being not, or at least not completely cured at the time it is contacted with the gel coat material;

and wherein

polyol component (A) is a mixture that comprises (i) one or more polyols and (ii) one or more aromatic amines, and comprises from 0.5 to 10 mol of hydroxyl groups per kg of component (A); and polyisocyanate component (B) comprises one or more aromatic polyisocyanates.

23. (new) The process of claim 22, wherein the gel coat material displays an elongation at break at 23°C, measured according to DIN EN ISO 527, of at least 3%.

- 24. (new) The process of claim 22, wherein the polyurethane gel coat material is not completely cured at the time it is contacted with the synthetic resin.
- 25. (new) The process of claim 24, wherein the synthetic resin is applied onto the polyurethane gel coat material.
- 26. (new) The process of claim 22, wherein the synthetic resin comprises one or more reinforcing materials.
- 27. (new) The process of claim 26, wherein the one or more reinforcing materials comprise one of more of a glass fiber fabric, a glass fiber nonwoven, a carbon fiber fabric, and a carbon fiber bonded fabric.
- 28. (new) The process of claim 22, wherein component (A)(i) comprises one or more polyether polyols.
- 29. (new) The process of claim 22, wherein component (A)(i) comprises at least one of (A1) one or more low molecular weight polyols having a molecular weight of from 150 to 600 g/mol and from 4 to 20 mol of hydroxyl groups per kg of low molecular weight polyol(s), and (A2) one or more higher molecular weight polyols.
- 30. (new) The process of claim 22, wherein an aromatic amine of component (A)(ii), as a 20 wt.% solution in toluene, mixed at 23°C with an equimolar quantity of an

oligomeric HDI isocyanate having an NCO content of about 5.2 mol/kg and a viscosity of from 2,750 to 4,250 mPas, as a 80 wt.% solution in toluene, affords a gel time, determined according to E-DIN VDE 0291-2, 1997-06, section 9.2.1., of more than 30 seconds.

- 31. (new) The process of claim 22, wherein the one or more aromatic amines of component (A)(ii) comprise at least one methylenebisaniline.
- 32. (new) The process of claim 31, wherein the at least one methylenebisaniline comprises 4,4'- methylenebis-(3-chloro-2,6-diethylaniline).
- 33. (new) The process of claim 22, wherein component (A) comprises from 0.1 to 20 wt.% of the one or more aromatic amines, based on a total weight of components (A)(i) and (A)(ii).
- 34. (new) The process of claim 29, wherein component (A) comprises from 2 to 70 wt.% of component (A1), based on a total weight of components (A)(i) and (A)(ii).
- 35. (new) The process of claim 34, wherein component (A) comprises from 5 to 60 wt.% of component (A1).
- 36. (new) The process of claim 29, wherein component (A1) comprises from 4.5 to 15 mol of hydroxyl groups of per kg of component (A1).

- 37. (new) The process of claim 29, wherein component (A1) comprises one or more polyols selected from straight-chain and branched polyester polyols, polyether polyols, acrylate polyols, and polyols based on dimeric fatty acids.
- 38. (new) The process of claim 29, wherein component (A2) comprises one or more polyols selected from polyester polyols, polyether polyols, acrylate polyols, and polyols based on dimeric fatty acids.
- 39. (new) The process of claim 29, wherein component (A) comprises from 75 to 10 wt. % of component (A2), based on a total weight of components (A)(i) and (A)(ii).
- 40. (new) The process of claim 22, wherein polyisocyanate component (B) comprises one or more of a monomeric, oligomeric or polymeric polyisocyanate.
- 41. (new) A synthetic resin composite material with a polyurethane gel coat, wherein the composite material is obtained by the process of claim 22.
- 42. (new) The composite material of claim 41, wherein the composite material is in a form of a rotor vane for a wind power plant, or a part thereof.
- 43. (new) A process for the production of a synthetic resin composite material with a polyurethane gel coat, wherein the process comprises

- (i) forming a gel coat material by mixing a polyol component (A) and a polyisocyanate component (B) and, optionally, partially curing the resultant mixture; and
- (ii) applying onto the gel coat material a synthetic resin that comprises at least one of an epoxy resin and a vinyl ester resin, the synthetic resin being not, or at least not completely cured at the time it is applied onto the gel coat material;

and wherein

polyol component (A) is a mixture that comprises (i) one or more polyols and (ii) one or more aromatic amines, and comprises from 0.5 to 10 mol of hydroxyl groups per kg of component (A); and polyisocyanate component (B) comprises one or more aromatic polyisocyanates.